

## LISTA DE PUBLICAȚII

### **I. Articole publicate în reviste de specialitate :**

1. J. Zsakó, A. Mocanu, **Cs. Racz**, K. Racz, E. Chifu, "Critical Micelle Concentration of Sodium Cholate Solutions", *Studia Univ. Babeș-Bolyai, Ser. Chem.*, **42** (1-2), 37-41, (1997).
2. I. Zsako, M. Tomoaia-Cotișel, A. Mocanu, **Cs. Racz**, E. Chifu, "Thermodynamic of adsorption and micelle formation of sodium cholate in two-phase systems", *J. Romanian Colloid & Surf. Chem. Assoc.*, **2** (3-4), 37-40 (1997).
3. M. Tomoaia-Cotișel, J. Zsako, A. Mocanu, M. Salajan, **Cs. Racz**, S. Bran, E. Chifu, "Adsorption kinetics of dibucaine and tetracaine at the benzene/water interface studied by pendant drop method", *Studia Univ. Babeș-Bolyai, Ser. Chem.*, **XLVIII**, (1), 201-218 (2003).
4. A. Mocanu, G. Tomoaia, M. Tomoaia-Cotișel, **Cs. Racz**, C.R. Ispas, J. Zsako, "Simulations of Some Biomembrane Interfacial Phenomena. I. Specific Interactions Between Bovine Serum Albumin and Melatonin", *Studia Univ. Babeș-Bolyai, Ser. Chem.*, **XLIX**, (1), 29-34 (2004).
5. M. Tomoaia-Cotișel, V.D. Pop, Gh. Tomoaia, A. Mocanu, M. I. Salajan, **Cs. Racz**, C.R. Ispas, O. Pascu and O.C. Borostean, "Atomic force microscopy studies of Langmuir-Blodgett films. The influence of aluminum substrate on dipalmitoyl phosphatidylcholine nanolayers", *Studia Univ. Babeș-Bolyai, Chem.*, **50** (1), 23-37 (2005).
6. Gh. Tomoaia, M. Tomoaia-Cotișel, **Cs. Racz**, C.R. Ispas, C. Floare, "Langmuir kinetics and adsorption mechanism at the oil/water interface", *Studia Univ. Babeș-Bolyai, Chem.*, **50** (1), 47-58 (2005).
7. M. Tomoaia-Cotișel, **Cs. Racz**, Gh. Tomoaia, C. Floare, R. Totos, L. Bobos, O. Pascu, A. Dumitru, "Molecular structure and monolayer properties of some carotenoids", *Studia Univ. Babeș-Bolyai Chem.*, **50** (1), 39-45 (2005).
8. O. Horovitz, Gh. Tomoaia, **Cs. Racz**, A. Mocanu, L. Bobos, M. Tomoaia-Cotișel, "Surface properties of some carotenoids spread in monolayers at the air/water interface. Experimental and computational approach", *Cent. Eur. J. Chem.*, **4**(3), 489-501 (2006).
9. M. Tomoaia-Cotișel, A. Tomoaia-Cotișel, T. Yupsanis, Gh. Tomoaia, I. Balea, A. Mocanu, **Cs. Racz**, "Coating layers of major storage protein from aleurone cells of barley studied by atomic force microscopy", *Rev. Roum. Chim.*, **51** (12), 1201-1205 (2006).
10. O. Horovitz, A. Mocanu, Gh. Tomoaia, M. Crisan, L.-D. Bobos, **Cs. Racz**, M. Tomoaia-Cotișel, "Amino acids binding to gold nanoparticles", *Studia, Univ. Babeș-Bolyai, Chem.*, **52** (3), 132-140 (2007).

11. L.-D. Bobos, Gh. Tomoaia, **Cs. Racz**, A. Mocanu, O. Horovitz, I. Petean, M. Tomoaia-Cotisel, "Morphology of collagen and anti-cancer drugs assemblies on mica", *Studia, Univ. Babes-Bolyai, Chem.*, **53** (4), 99-110 (2008).
12. O. Horovitz, M. Tomoaia-Cotisel, **Cs. Racz**, Gh. Tomoaia, L.-D. Bobos, A. Mocanu, "The interaction of silver nanoparticles with lipoic acid", *Studia, Univ. Babes-Bolyai, Chem.*, **54**(3), 89-96 (2009).
13. M. Tomoaia-Cotisel, N. Cioica, C. Cota, **Cs. Racz**, I. Petean, L.-D. Bobos, A. Mocanu and O. Horovitz, "Structure of starch granules revealed by atomic force microscopy", *Studia, Univ. Babes-Bolyai, Chem.*, **55**(2), 313-326 (2010).
14. **Cs- P. Racz**, R.-D. Pasca, S. Santa, I. Kacso, Gh. Tomoaia, A. Mocanu, O. Horovitz and M. Tomoaia-Cotisel, "Inclusion complex of  $\beta$ -cyclodextrin and quercetin. Thermodynamic approach", *Rev. Chim. (Bucharest)*, **62** (10), 992-997 (2011).
15. **Cs- P. Racz**, G. Borodi, M.M. Pop, I. Kacso, S. Santa, M. Tomoaia-Cotisel, "Structure of the inclusion complex of  $\beta$ -cyclodextrin with lipoic acid from laboratory powder diffraction data", *Acta Cryst.*, B **68**, 164-170 (2012).
16. **Cs-P. Racz**, Sz. Santa, M. Tomoaia-Cotisel, Gh. Borodi, I. Kacso, A. Pirnau and I. Bratu, "Inclusion of  $\alpha$ -lipoic acid in  $\beta$ -cyclodextrin. Physical-chemical and structural characterization", *J. Incl. Phenom. Macrocycl. Chem.*, DOI 10.1007/s10847-012-0191-z.
17. I. Kacso, **Cs.-P. Racz**, S. Santa, L. Rus, D. Dadarlat, G. Borodi, I. Bratu, "Ambazone-lipoic acid salt: Structural and thermal characterization", *Thermochimica Acta* **550**, 13-18 (2012).
18. I.Gh. Oroian, I. Covrig, A. Odagiu, **Cs. Racz**, "Optimizing Biologic Active Components of the Nutraceutical Compound Based on Selenium Enriched Garlic", *Bulletin USAMV serie Agriculture* **70**(2), 304-308 (2013).
19. Gh.Tomoaia, O.Horovitz, A.Mocanu, A.Nita, A.Avram, **Cs-P. Racz**, O.Soritau, M.Cenariu, M. Tomoaia-Cotisel, " Effects of doxorubicin mediated by gold nanoparticles and resveratrol in two human cervical tumor cell lines" , *Colloids and Surfaces B: Biointerfaces* **135**, 726-734 (2015).  
DOI 10.1016/j.colsurfb.2015.08.36
20. A. Mocanu, O. Horowitz, **Cs.-P. Racz**, M. Tomoaia-Cotisel, "Green synthesis and characterization of gold and silver nanoparticles" , *Revue Roumaine de Chimie*, **60**(7-8), 721-726, (2015).
21. A. Csavdari, **Cs. Racz**, D.M. Sabou, Sz. A. Tonk, I.,D. Spiridon , " Economically efficient Production of Hydro-Alcoholic Extracts from Medicinal Plants", *Rev.Chim. (Bucharest)*, **67** No.10, 1906-1913, (2016).

22. R.D. Pasca, Sz. Santa, L.Zs. Racz, **Cs.P. Racz** “Metal nanoparticles (other than gold or silver) prepared using plant extracts for medical applications”, *Proceedings Volume 10010, Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies VIII* (2016). DOI: 10.1117/12.2244303

## **II CĂRTI:**

1) E. Chifu, "*Chimia Coloizilor si a Interfetelor*", **Editors:** M. Tomoaia-Cotisel, I. Albu, A. Mocanu, M. Salajan, E. Gavrilă, **Cs. Racz**, *University Press*, Cluj-Napoca, **2000**, pp. 400, ISBN: 973-8095-08-5.

2) E. Chifu, M. Tomoaia-Cotisel, I. Albu, A. Mocanu, M. Salajan, **Cs. Racz**, V.D. Pop, *Metode Experimentale in Chimia si Biofizica Coloizilor si a Interfetelor*, Presa Universitara Clujeana Cluj-Napoca, **2004**, pp. 175, ISBN: 973-610-242-4.

3) M. Tomoaia-Cotisel, O. Horovitz, A. Mocanu, I. Albu, **Cs. Racz**, “Chemical Thermodynamics in Numerical Applications, Diagrams and Tests”, *University Press*, Cluj-Napoca, **2007**, pp. 210, **ISBN: 978-973-610-550-0**.

4) M. Tomoaia-Cotisel, O. Horovitz, A. Mocanu, I. Albu and **Cs. Racz**, “Chemical Thermodynamics in Numerical Applications, Diagrams and Tests”, *Second Edition*, *University Press*, Cluj-Napoca, **2008**, pp. 226, **ISBN: 978-973-610-691-0**.